

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A receiving device which receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element periodic signals, and which executes a reproduction output corresponding to an element periodic signal that is a decoding result of the plurality of encoded element periodic signals extracted from the transmission unit signal, the plurality of encoded element periodic signals being obtained by dividing an original periodic signal produced from a predetermined source of production in accordance with respective logic channels;

the receiving device comprising:

an interference event detecting means for detecting that a predetermined interference event to interfere with using of the encoded element periodic signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time series during transmission via the transmission path; and

interpolation means of the number of the logic channels, each of which produces an alternative element periodic signal and interpolates the alternative element periodic signal into a series of element periodic signals when the interference event detecting means detects occurrence of the interference event, the alternative element periodic signal being to become alternative to the encoded element periodic signal packed in the transmission unit signal;

wherein each of the ~~plurality of~~ interpolation means provided for the respective logic channels includes an element periodic signal storing section for storing the element periodic signal of the decoding result of the encoded element periodic signal extracted from the transmission unit signal received by each corresponding logic channel;

wherein any one of the ~~plurality of~~ interpolation means provided for the respective logic channels includes:

a period calculating section for calculating a value of a period, which is information to become a base for producing the alternative element periodic signal and is common to the respective element periodic signals obtained by dividing the same original periodic signal, from the element periodic signal stored in the element periodic signal storing section; and

a period notifying section for giving a notice of the value of the calculated period to other interpolation means.

2. (Currently Amended) The receiving device according to claim 1, wherein each of at least two of the ~~plurality of~~ interpolation means provided for the respective logic channels includes the element periodic signal storing section, the period calculating section, and the period notifying section.

3. (Currently Amended) A receiving method for receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element periodic signals, and for executing a reproduction output corresponding to an element periodic signal that is a decoding result of the plurality of encoded element periodic signals extracted from the transmission unit signal, the plurality of encoded element periodic signals being obtained by dividing an original periodic signal produced from a predetermined source of production in accordance with respective logic channels;

the receiving method comprising the steps of:

detecting, by an interference event detecting means, that a predetermined interference event to interfere with using of the encoded element periodic signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time series during transmission via the transmission path; and

producing an alternative element periodic signal on the basis of a period and interpolating the alternative element periodic signal into a series of element periodic signals when the interference event detecting means detects occurrence of the interference event, the alternative element periodic signal being to become alternative to the encoded element periodic signal packed in the transmission unit signal, by each of interpolation means of the number of the logic channels;

wherein each of the ~~plurality of~~ interpolation means provided for the respective logic channels causes an element periodic signal storing section to store the element periodic signal of the decoding result of the encoded element periodic signal extracted from the transmission unit signal received by each corresponding logic channel;

wherein any one of the ~~plurality of~~ interpolation means provided for the respective logic

channels

causes a period calculating section to calculate a value of a period, which is information to become a base for producing the alternative element periodic signal and is common to the respective element periodic signals obtained by dividing the same original periodic signal, from the element periodic signal stored in the element periodic signal storing section; and

causes a period notifying section to give a notice of the value of the calculated period to other interpolation means.

4. (Currently Amended) A receiving device which receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element voice data signals, and which executes a reproduction output corresponding to an element voice data signal that is a decoding result of the plurality of encoded element voice data signals extracted from the transmission unit signal, the plurality of encoded element voice data signals being obtained by dividing an original voice data signal produced from a predetermined source of production in accordance with respective logic channels; the receiving device comprising:

an interference event detecting means for detecting that a predetermined interference event to interfere with using of the encoded element voice data signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time series during transmission via the transmission path; and

interpolation means of the number of the logic channels, each of which produces an alternative element voice data signal and interpolates the alternative element voice data signal into a series of element voice data signals when the interference event detecting means detects occurrence of the interference event, the alternative element voice data signal being to become alternative to the encoded element voice data signal packed in the transmission unit signal;

wherein each of the ~~plurality of~~ interpolation means provided for the respective logic channels includes an element voice data signal storing section for storing the element voice data signal of the decoding result of the encoded element voice data signal extracted from the transmission unit signal received by each corresponding logic channel;

wherein any one of the ~~plurality of~~ interpolation means provided for the respective logic

channels includes:

a calculating section for calculating a value of a parameter, which is information to become a base for producing the alternative element voice data signal and is common to the respective element voice data signals obtained by dividing the same original voice data signal, from the element voice data signal stored in the element voice data signal storing section; and

a notifying section for giving a notice of the value of the calculated parameter to other interpolation means.

5. (Currently Amended) The receiving device according to claim 4[[3]], wherein the voice data signal is a periodic signal having a periodicity that can be detected, the value of the parameter is a value of a period, which is common to the respective voice data signals obtained by dividing the same original voice data signal, and the interpolation means produces the voice data signal on the basis of a period calculated by the calculating section.

6. (Currently Amended) The receiving device according to claim 4[[3]], wherein each of at least two of the ~~plurality of~~ interpolation means provided for the respective logic channels includes the element voice data signal storing section, the calculating section, and the notifying section.

7. (Currently Amended) A receiving method for receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element voice data signals, and for executing a reproduction output corresponding to an element voice data signal that is a decoding result of the plurality of encoded element voice data signals extracted from the transmission unit signal, the plurality of encoded element voice data signals being obtained by dividing an original voice data signal produced from a predetermined source of production in accordance with respective logic channels;

the receiving method comprising the steps of:

detecting, by an interference event detecting means, that a predetermined interference event to interfere with using of the encoded element voice data signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time

series during transmission via the transmission path; and

producing an alternative element voice data signal on the basis of a period and interpolating the alternative element voice data signal into a series of element voice data signals when the interference event detecting means detects occurrence of the interference event, the alternative element voice data signal being to become alternative to the encoded element voice data signal packed in the transmission unit signal, by each of interpolation means of the number of the logic channels;

wherein each of the ~~plurality of~~ interpolation means provided for the respective logic channels causes an element voice data signal storing section to store the element voice data signal of the decoding result of the encoded element voice data signal extracted from the transmission unit signal received by each corresponding logic channel;

wherein any one of the ~~plurality of~~ interpolation means provided for the respective logic channels

causes a calculating section to calculate a value of a parameter, which is information to become a base for producing the alternative element voice data signal and is common to the respective element voice data signals obtained by dividing the same original voice data signal, from the element voice data signal stored in the element voice data signal storing section; and

causes a notifying section to give a notice of the value of the calculated parameter to other interpolation means.